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4	BRS	L4	366	(semantic\$5 near10 (class:\$9 or categor\$9) and (certainty or reliability or confidence or similar\$5 or match\$3) and imag\$3	USPAT	2005/06/20 14:11	
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<u>L8</u> (measur\$6 near3 (confidence or reliabil\$5 or certainty)) same (match\$3 or similar\$5)	553	<u>L8</u>
<u>L9</u> L8 same image	56	<u>L9</u>

<u>L10</u>	(measur\$6 near3 (confidence or reliabil\$5 or certainty)) near3(match\$3 or similar\$5)	106	<u>L10</u>
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<u>L11</u>	general semantic theme	1	<u>L11</u>
<u>L12</u>	L11 and film\$1	1	<u>L12</u>
<u>L13</u>	visualizing collection near6 querying	2	<u>L13</u>
<u>L14</u>	L13 and film	2	<u>L14</u>
<u>L15</u>	L11 and support vector4	0	<u>L15</u>
<u>L16</u>	semantic theme and support	2	<u>L16</u>
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<u>L17</u>	wedding and birthday and semantic\$5 and classif\$9	25	<u>L17</u>
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<u>L18</u>	6351556.pn.	1	<u>L18</u>
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<u>L20</u>	L19 and face	2	<u>L20</u>
<u>L21</u>	confidence near10 support	198	<u>L21</u>
<u>L22</u>	L21 and theme	12	<u>L22</u>
<u>L23</u>	L21 and (semantic\$5 near10 theme)	1	<u>L23</u>
<u>L24</u>	enhanced value near3 service	11	<u>L24</u>
<u>L25</u>	L24 and semantic\$6	2	<u>L25</u>
<u>L26</u>	produc\$5 near10 enhanced value near10 service	1	<u>L26</u>
<u>L27</u>	enhanced same value same product same service	60	<u>L27</u>
<u>L28</u>	enhanced same value same product same service	60	<u>L28</u>
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IEEE CNF IEE Conference Proceeding

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Vailaya, A.; Figueiredo, M.A.T.; Jain, A.K.; Hong-Jiang Zhang; Image Processing, IEEE Transactions on Volume 10, Issue 1, Jan. 2001 Page(s):117 - 130

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Zeljkovic, V.; Dorado, A.; Izquierdo, E.; Circuits and Systems for Video Technology, IEEE Transactions on Volume 14, Issue 11, Nov. 2004 Page(s):1277 - 1280

[AbstractPlus](#) | [References](#) | [Full Text: PDF\(688 KB\)](#) IEEE JNL**6. Incorporating temporal context with content for classifying image collections**

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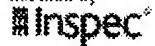
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- 1** [Image and video digital libraries: Semantic video classification and feature subset selection under context and concept uncertainty](#)



Jianping Fan, Hangzai Luo, Jing Xiao, Lide Wu

June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**

Full text available: [pdf\(258.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As large collections of videos become one key component of digital libraries, there is an urgent need of semantic video classification and feature subset selection to enable more effective video database organization and retrieval. However, most existing techniques for classifier training require a large number of labeled samples to learn correctly and suffer from the problems of context and concept uncertainty when only a limited number of labeled samples are available. To address the problems ...

Keywords: adaptive EM algorithm, context and concept uncertainty, semantic video classification, unlabeled samples

- 2** [Video retrieval: Semantic video classification by integrating flexible mixture model with adaptive EM algorithm](#)



Jianping Fan, Hangzai Luo, Xiaodong Lin

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available: [pdf\(631.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital video now plays an important role in medical education and healthcare, but our ability to automatic video indexing at semantic level is currently primitive. In this paper, we propose a novel framework to enable more effective semantic video classification and indexing in a specific surgery education video domain. Specifically, this framework includes: (a) A novel semantic-sensitive video content characterization and representation framework by using **principal video shots** and th ...

Keywords: adaptive EM algorithm, flexible mixture model, principal video shots, semantic video classification

- 3** [Class analyses as abstract interpretations of trace semantics](#)



Fausto Spoto, Thomas Jensen

September 2003 ACM Transactions on Programming Languages and Systems (TOPLAS),

Volume 25 Issue 5

Full text available:  pdf(756.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We use abstract interpretation to abstract a compositional trace semantics for a simple imperative object-oriented language into its projection over a set of program points called *watchpoints*. We say that the resulting *watchpoint semantics* is *focused* on the watchpoints. Every abstraction of the computational domain of this semantics induces an abstract, still compositional, and focused watchpoint semantics. This establishes a basis for developing static analyses obtaining in ...

Keywords: Abstract interpretation, class analysis, denotational semantics

4 Structure and semantics in OODB class specifications 

J. Geller, Y. Perl, E. J. Neuhold

December 1991 **ACM SIGMOD Record**, Volume 20 Issue 4

Full text available:  pdf(438.37 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A class specification contains both structural aspects and semantic aspects. We introduce a mathematically based distinction between structural and semantic aspects. We show how this distinction is used to identify all structural aspects of a class specification to be included in the object type of a class. The model obtained is called the Dual Model due to the separation of structure and semantics in the class specification. Advantages of the separation of structure and ...

5 Automatic semantic classification for Chinese unknown compound nouns 

Keh-Jiann Chen, Chao-jan Chen

July 2000 **Proceedings of the 17th conference on Computational linguistics - Volume 1**

Full text available:  pdf(642.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The paper describes a similarity-based model to present the morphological rules for Chinese compound nouns. This representation model serves functions of 1) as the morphological rules of the compounds, 2) as a mean to evaluate the properness of a compound construction, and 3) as a mean to disambiguate the semantic ambiguity of the morphological head of a compound noun. An automatic semantic classification system for Chinese unknown compounds is thus implemented based on the model. Experiments an ...

6 Learning primitive and scene semantics of images for classification and retrieval 

Cheong Yiu Fung, Kai Fock Loe

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 2)**

Full text available:  pdf(724.15 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: image retrieval, image semantics, machine learning

7 Video II: Concept-oriented video skimming and adaptation via semantic classification 

Hangzai Luo, Jianping Fan

October 2004 **Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available:  pdf(1.35 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Concept-oriented video skimming and adaptation plays an important role in enabling online medical education by selecting and transmitting the suitable medical video clips to the

students over network. In this paper, we propose a novel framework to enable concept-oriented video skimming and adaptation in a specific domain of medical education video. Specifically, this framework includes: (a) A novel semantic-sensitive framework for video content characterization and representation by using pri ...

Keywords: concept-oriented video skimming and adaptation, semantic video classification

8 Semantics of type classes revisited

Satish R. Thatté

July 1994 **ACM SIGPLAN Lisp Pointers , Proceedings of the 1994 ACM conference on LISP and functional programming**, Volume VII Issue 3

Full text available:  pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a new approach to the semantics of languages with ML-like polymorphic types and type classes. The goals of the new approach are simplicity and generality. Our typing rules are a relatively straightforward extension of the rules for translating core-ML to core-XML. The new features are an encoding of classes as recursive sets of types, and class-membership constraints on types. We show that the soundness of this type of system is independent of the fixedpoint operator used to inte ...

9 Poster Sessions: Constructing verb semantic classes for French: methods and evaluation

Patrick Saint-Dizier

August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 2**

Full text available:  pdf(408.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we study a reformulation, which is better adapted to NLP, of the alternation system developed for English by B. Levin. We have studied a set of 1700 verbs from which we explain how verb semantic classes can be built in a systematic way. The quality of the results w.r.t. semantic classifications such as WordNet is then evaluated.

10 Semantic analysis of virtual classes and tested classes

Ole Lehrmann Madsen

October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 34 Issue 10

Full text available:  pdf(1.82 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Virtual classes and nested classes are distinguishing features of BETA. Nested classes originated from Simula, but until recently they have not been part of main stream object-oriented languages. C++ has a restricted form of nested classes and they were included in Java 1.1. Virtual classes is the BETA mechanism for expressing generic classes and virtual classes is an alternative to parameterized classes. There has recently been an increasing interest in virtual classes and a number of pro ...

Keywords: generic class, parameterized class, semantic analysis, virtual class

11 Software engineering #1: Towards a semantic-based approach for software reusable component classification and retrieval

Haining Yao, Letha Etzkorn

April 2004 **Proceedings of the 42nd annual Southeast regional conference**

Full text available:  pdf(218.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose a semantic-based approach to improve software component reuse. The whole approach extends the software reusable library to the World Wide Web; overcomes the keyword-based barrier by allowing user queries in natural language; treats a software component as a service described by semantic service representation format; enhances the retrieval by semantically matching between a user query semantic representation and software component semantic descriptions against a domain ...

Keywords: domain knowledge base, ontology, reusable library, reuse repository, semantic matchmaking, system develop

12 Modelling the Internet: On characterizing affinity and its impact on network performance 

Gabriel Lucas, Abhishek Ghose, John Chuang

August 2003 **Proceedings of the ACM SIGCOMM workshop on Models, methods and tools for reproducible network research**

Full text available:  pdf(236.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

An important component of simulation-based network research is the selection of nodes to a member group, such as receivers in a multicast group or web clients in a content delivery network. In a seminal paper, Philips *et al.* introduce an algorithm for generating member groups with different degrees of affinity (clusteredness) and show that affinity can have a significant effect on multicast efficiency. Subsequent studies applying this algorithm have all used the algorithm's input parameter ...

13 Tools for integrating and querying web information: OntoKhoj: a semantic web portal for ontology searching, ranking and classification 

Chintan Patel, Kaustubh Supekar, Yuyung Lee, E. K. Park

November 2003 **Proceedings of the 5th ACM international workshop on Web information and data management**

Full text available:  pdf(80.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goal of the next generation Web is to build virtual communities, wherein software agents and people can work in cooperation by sharing knowledge. To achieve this goal, the emerging Semantic Web community has proposed ontologies to express knowledge in a machine understandable way. The process of building and maintaining ontologies, which is known as Ontology Engineering, presents unique challenges. These challenges are related to lack of trustworthy and authoritative knowledge sources and ab ...

Keywords: classification, ranking, searching, semantic web

14 Semantic vs. structural resemblance of classes 

Peter Fankhauser, Martin Kracker, Erich J. Neuhold

December 1991 **ACM SIGMOD Record**, Volume 20 Issue 4

Full text available:  pdf(521.96 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We present an approach to determine the similarity of classes which utilized fuzzy and incomplete terminological knowledge together with schema knowledge. We clearly distinguish between semantic similarity determining the degree of resemblance according to real world semantics, and structural correspondence explaining how classes can actually be interrelated. To compute the semantic similarity

15

Technical poster session 1: multimedia analysis, processing, and retrieval: An online-optimized incremental learning framework for video semantic classification 

Jun Wu, Xian-Sheng Hua, Hong-Jiang Zhang, Bo Zhang

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available:  pdf(156.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper considers the problems of feature variation and concept uncertainty in typical learning-based video semantic classification schemes. We proposed a new online semantic classification framework, termed OOIL (for Online-Optimized Incremental Learning), in which two sets of optimized classification models, local and global, are online trained by sufficiently exploiting both local and global statistic characteristics of videos. The global models are pre-trained on a relatively small set ...

Keywords: concept drifting, incremental learning, video analysis, video semantic classification

16 Demonstration session 2: A unified framework for semantic shot classification in sports videos 

Ling-Yu Duan, Min Xu, Xiao-Dong Yu, Qi Tian

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available:  pdf(254.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this demonstration, we present a unified framework for semantic shot classification in sports videos. Unlike previous approaches, which focus on clustering by aggregating shots with similar low-level features, the proposed scheme makes use of domain knowledge of specific sport to perform a top-down video shot classification, including identification of video shots classes for each sport, and supervised learning and classification of given sports video with low-level and middle-level features ...

Keywords: classification, semantics, shot, sports, television, video

17 Extracting classification knowledge of Internet documents with mining term associations: a semantic approach 

Shian-Hua Lin, Chi-Sheng Shih, Meng Chang Chen, Jan-Ming Ho, Ming-Tat Ko, Yueh-Ming Huang

August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available:  pdf(1.02 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Semantics and the syntactic classification of words 

Ernst von Glaserfeld

September 1969 **Proceedings of the 1969 conference on Computational linguistics**

Full text available:  pdf(653.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Traditional grammars classify words according to generic syntactic functions or morphological characteristics. For teaching humans and for descriptive linguistics this seemed sufficient. The advent of computers has changed the situation. Since machines are devoid of experiential knowledge, they need a more explicit grammar to handle natural language. Correlational Grammar is an attempt in that direction. The paper describes parts of correlational syntax and shows how a highly differentiated synt ...

19

Posters: Semantic video classification by integrating unlabeled samples for classifier 

training

Jianping Fan, Hangzai Luo

July 2004 **Proceedings of the 27th annual international conference on Research and development in information retrieval**

Full text available:  pdf(120.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Semantic video classification has become an active research topic to enable more effective video retrieval and knowledge discovery from large-scale video databases. However, most existing techniques for classifier training require a large number of hand-labeled samples to learn correctly. To address this problem, we have proposed a semi-supervised framework to achieve incremental classifier training by integrating a limited number of labeled samples with a large number of unlabeled samples. Spec ...

Keywords: adaptive EM algorithm, finite mixture models, semantic video classification, unlabeled samples

20 Session 7A: Hierarchies for semantic classes



Lance Fortnow, Rahul Santhanam, Luca Trevisan

May 2005 **Proceedings of the thirty-seventh annual ACM symposium on Theory of computing**

Full text available:  pdf(193.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We show that for any constant a , ZPP/b(n) strictly contains ZPTIME(n^a)/b(n) for some $b(n) = O(\log n \log \log n)$. Our techniques are very general and give the same hierarchy for all common semantic time classes including RTIME, NTIME \cap coNTIME, UTIME, MATIME, AMTIME and BQTIME. We show a stronger hierarchy for RTIME: For every constant c , RP/1 is not contained in RTIME(n^c)/($\log n$) $^{1/2c}$. To prove this result we first prove a similar statement for NP by building ...

Keywords: advice, hierarchy theorems, semantic classes

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

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